

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Larry N. Lewis et al.

Group Art Unit:

Serial No.:

Examiner:

Filed:

For

## INFORMATION DISCLOSURE STATEMENT

- ☒ 1 **Pursuant to 37CFR 1.97(b)**  
[within 3 months of national, non-CPA filing or prior to 1st Office Action] *no charge*
- ☐ 2 **Certification Pursuant to 37 CFR 1.97(c)(1)**  
[before Final Office Action, Allowance, or other action closing prosecution] *no charge*
- ☐ 3 **Fee Payment Pursuant to 37 CFR 1.97(c)(2)**  
[before Final Office Action, Allowance, or other action closing prosecution] *\$180.00*
- ☐ 4 **Certification & Fee Payment Pursuant to 37 CFR 1.97(d)**  
[On or before issue fee payment] *\$180.00*

ATTN: MAILSTOP PATENT APPLICATION  
COMMISSIONER FOR PATENTS  
ARLINGTON, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98:

- ☒ 5 A list of documents on form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.

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This paper is submitted in accordance with:

- ☒ 6 37 CFR 1.97(b): [within 3 months of national, non-CPA filing or prior to 1st Office Action]
- ☐ 7 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ 8 The required Certification made in item 11 below;
- ☐ 9 <sup>or</sup> The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 15 below.
- ☐ 10 37 CFR 1.97(d): [on or before issue fee payment]; and
- a) The required Certification is stated in item 11 below; and
- b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.
- ☐ 11 Certification
- ☐ 12 Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- ☐ 13 No item contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 14 Payment of all applicable fees:
- ☒ 15 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 07-0868

An original and two (2) copies of this document are enclosed.

Respectfully submitted,

April 8, 2004

Date

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FORM PTO-1449  
(REV. 7-80)  
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

132927-1

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

LIST OF ITEMS

(Use several sheets if necessary)

Applicant

Larry N. Lewis et al.

Filing Date

Group

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6	6	4	5	6	4	5	11/11/03	Adachi et al		
	AB											
	AC											
	AD											
	AE											
	AF											
	AG											
	AH											
	AI											
	AJ											
	AK											

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

	AR	A. Kraft, A.C. Grimsdale, A.B. Holmes, "Electroluminescent Conjugated Polymers-Seeing Polymers in a New Light," Angew. Chem. Int. Ed 37 (1998) 403.
	AS	M.T. Bemius, M. Inbasekaran, J. O'Brien, W. Wu, "Progress with Light-Emitting Polymers," Adv. Mater., 12, (2000) 1737.
	AT	J.C. Scott, "Conducting Polymers: From Novel Science to New technology," Science, 278, (1997) 2071.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80) (Title Amended 3/83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 132927-1	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT-- <u>LIST OF ITEMS</u>  (Use several sheets if necessary)		Applicant Larry N. Lewis et al.	
		Filing Date	Group

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

	<b>AU</b>	J.E. Pickett, "Polymer photodegradation and stabilization: a tutorial," Polymer Preprints, American Chemical Society, Division of Polymer Chemistry, (2001), 42 344.
	<b>AV</b>	M.E. Thompson, S. Lamansky, P. Djurovich, D. Murphy, F. Abdel-Razzaq, S.R. Forrest M. Baldo, P.E. Burrow, "Electrophosphorescent organic light emitting diodes," Polymeric Materials Science and Engineering, 83 (2000), 202.
	<b>AW</b>	M. A. Baldo, M.E. Thompson, S.R. Forrest, "Phosphorescent materials for application to organic light emitting devices," Pure and Applied Chemistry, 71 (1999) 2095
	<b>AX</b>	V. W-W Yam, C-K. Hui, K. M-C. Wang, N Zhu, K-K. Cheung, "Synthesis, Structural Characterization and Luminescence Behavior of Face-to-Face Diplatinum (II) Alkynyl ~ Complexes," Organometallics, 21(2002) 4326.
	<b>AY</b>	G.V. Loukova, V.A. Smirnov, "Phosphorescent ligand-to-metal charge-transfer excited states in the group IVb metallocene triad", Chem Phys. Lett., 329 (2000) 437-442.
	<b>AZ</b>	G.V. Loukova, V.V. Strelets, "Electrochemical versus optical insight in frontier orbitals of Ti(IV), Zr(IV), and Hf(IV) bent metallocenes," J. Organomet. Chem., 606 (2000) 203-206.
	<b>BU</b>	J.W. Kenney, D.R. Boone, D. Striplin, Yong-Hong Chen, and Kyle B. Hamar, "Electronic Luminescence Spectra of Charge Transfer States of Titanium (IV) Metallocene," Organometallics, 12 (1993) 3671-3676
	<b>BV</b>	A. Vogler, H. Kunkely, "Electronic spectra and photoreactivity of cyclopentadienyl complexes," Coordination Chemistry Reviews, 211 (2001) 223.
	<b>BW</b>	G.V. Loukova, "The first experimental approach to probing frontier orbitals and HOMO-LUMO gap in bent metallocenes," Chemical Physics Letters, 353 (2002) 244-252
	<b>BX</b>	P.M. Druce, B.M. Kingston, M.F. Lappert, T.R. Spalding, R.C. Srivastava, "Metallocene halides. I. Synthesis, spectra, and redistribution equilibria of di-p-cyclopentadienyldihalotitanium(IV), -zirconium(IV), and -hafnium(IV)" J. Chem. Soc. (A) (1969) 2106.
	<b>BY</b>	A. Herzog, F-Q Liu, H.W. Roesky, . Demsar, K. Keller, M. Noltemeyer, "Trimethyltin Fluoride: A New Fluorinating Reagent for the Preparation of Organometallic Fluorides," Organometallics, 13, (1994) 1251.
	<b>BZ</b>	M. Braun, "α-Heteroatom-Substituted 1-Alkenyllithium Reagents: Carbanions and Carbenoids for C-C Bond Formation," Angew. Chem. Int. Ed 37 (1998) 431.

EXAMINER

DATE CONSIDERED